IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: M. MICHAEL PITTS, JR., and RODRIGO F.V. ROMO

DOCKET NO.: 111732.00012

SERIAL NO.:

EXAMINER:

FILED:

ART UNIT:

TITLE:

CAPACITIVE ELECTROSTATIC PROCESS FOR INHIBITING THE FORMATION OF BIOFILM DEPOSITS IN MEMBRANE-SEPARATION

SYSTEMS

Commissioner for Patents

Alexandria, VA 22313-1450

P.O. Box 1450

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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In keeping with the duty of candor and good faith owed to the Patent and Trademark Office, applicant wishes to make of record the items on attached PTO Form 1449. Pursuant to 37 CFR 1.98(d), copies of the U.S. and non-patent documents listed in Form 1449 are not submitted herewith because previously cited by and/or submitted to the Office during prosecution of U.S. Serial Nos. 10/047,493 and 09/416,255, the priorities of which are being claimed for this application.

Applicants believe that none of the referenced material, alone or in combination, anticipates or renders obvious their invention, as claimed in the attached continuation application. publication WO 99/50186 is submitted because believed to be relevant to the anti-corrosion and reverse-osmosis claims in the parent application, but it is not believed to anticipate or render obvious the claims related to biofilm formation.

Respectfully submitted,

Antonio R. Durando Reg. No. 28,409

Date: 3/9/04

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		LIST OF PRIOR ART			DOCKET NO. 732.00012			SERIAL	, NO.
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FORMAT	rio:			FILING DATE GF		ROUP			
			U.S.PATENT DO	CUMENT	rs				
EXAMINERS INITIALS		DOCUMENT NUMBER	DATE	 		NAME	CLASS	SUBCLASS	FILING DATE
[I	3 9 3 3 6 0 6	01/20/1976	ı	HARMS		204	152	12/73
	 I	4 0 2 4 0 4 7	05/17/1977	1	CLARK ET AI	,.	204	302	01/76
]	- I	4 2 3 8 3 2 6	12/09/1980	1	WOLF		210	695	109/79
	 I	4 2 7 8 5 4 8	07/14/1981	1	BETTINGER E	T AL.	210	636	108/79
]	 I	4 7 5 5 3 0 5	07/05/1988	l	FREMONT ET	AL.	210	748	104/86
]	 I	4 8 0 2 9 9 1	02/07/1989	i	MILLER		210	705	10/84
 1	 I	4 8 8 6 5 9 3	12/12/1989	- -	GIBBS		204	302	102/89
	 I	4 9 0 2 3 9 0	02/20/1990	1	ARNESEN		204	149	103/88
	 I	4 9 1 5 8 4 6	04/10/1990	1	THOMAS, JR.	ET AL	210	702	103/89
1	 I	5 0 2 2 4 1 9	06/11/1991	<u>-</u>	THOMPSON ET	AL.	134	102	104/87
 1	ı	5 1 1 4 5 7 6	05/19/1992	l	DITZIER ET	AL.	210	195.1	110/90
	- -	5 1 2 8 0 4 3	07/07/1992	1	WILDERMUTH		210	695	102/91
	 I	5 3 2 6 4 4 6	07/05/1994	<u> </u>	BINGER		204	305	107/92
	!	5 5 9 1 3 1 7	01/07/1997	<u>-</u>	PITT, JR.		204	667	102/94
ا	- -	5 8 0 7 4 3 9	09/15/1998	ı	AKATSU ET A	L.	134	32	109/97
 ا	- - -	5 8 1 7 2 2 4	10/06/1998	 	PITTS, JR.		204	571	01/97
ا	- ·	. 5191312101217	08/03/1999	-	MOHINDRA ET	AL.	134	21	101/98
l	 	6 1 8 0 0 5 6	01/30/2001	<u>-</u>	MCNEEL ET A	L.	422	15	112/98
			FOREIGN PATE	ENT DO	CUMENTS				
 	 	DOCUMENT NUMBER	DATE		COUNTRY		CLASS	SUBCLASS	TNSLTN YES NO
 I		WO 99/50186	10/07/1999	1	PCT		- 		
 ا	- -	DE 198 06 796 A1	02/19/1998	1	Germany				
 I	- ·	1-245868	02/10/1989	t	Japan		 I I		I I
 !	 I	2-298397	10/12/1990	 I	Japan		 		I (

FORM PTO-1449 THE UNITED STATES PATENT AND TRADEMARK OFFICE								
ATTY. DOCKET NO. SERIAL NO. LIST OF PRIOR ART 111732.00012								
ted by Applicants as Relevant to Invention entitled: APPLICANTS: APPLICANTS: M. MICHAEL PITTS, JR., et al. FORMATION OF BIOFILM DEPOSITS IN MEMBRANE-SEPARATION								
FORMATION OF BIOFILM DEPOSITS IN MEMBRANE-SEPARATION								
OTHER PRIOR ART (including Author, Title, Date, Pertinent, Etc.)								
J. Jass, "The Effect of Electrical Currents and Tobramycin on Pseudomonas Aeruginosa Biofilms," Journal of Industrial Microbiology 234-242 (1995)								
N. Wellman, "Bacterial Biofilms and the Bioelectric Effect," Antimicrobial Agents and Chemotherapy 2012-2014 (1996)								
J. Jass, "The Efficacy of Antibiotics Enhanced by Electrical Currents Against Pseudomonas Aeruginosa Biofilms," Journal of Antimicrobial Chemotherapy 987-1000 (1996)								
EXAMINER DATE CONSIDERED								
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								